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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/970,065	BEATHARD, ROGER V.			
		Examiner	Art Unit			
		Michael J. Moore, Jr.	2666			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NO - Failt Any	MORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO ensions of time may be available under the provisions of 37 CFR rs IX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply be ti reply within the statutory minimum of thirty (30) da iod will apply and will expire SIX (6) MONTHS fron atute, cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[🛛	Responsive to communication(s) filed on <u>03 October 2001</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	4) Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
10)⊠	The specification is objected to by the Exam The drawing(s) filed on <u>03 October 2001</u> is/a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	are: a)⊠ accepted or b)⊡ objected he drawing(s) be held in abeyance. Se rection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority ι	under 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure See the attached detailed Office action for a line of the papplication from the line of the papplication from the line of the attached detailed Office action for a line of the papplication from the line of	ents have been received. ents have been received in Applicat riority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stage			
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2) Notic 3) Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	Paper No(s)/Mail D				

DETAILED ACTION

Claim Objections

1. Claims **6**, **9**, **10**, **12-14**, **19**, **22**, **and 28** are objected to because of the following informalities:

Regarding claim 6, on line 2, the word "on" after the word "stored" should be "in".

Regarding claim **9**, on line 4, the word "on" after the word "request" should be "in". Also, on line 6, the word "on" after the word "request" should be "in".

Regarding claim **10**, on line 12, the word "on" after the word "request" should be "in". Also, on line 17, the word "on" after the word "request" should be "in". Also, on line 22, the word "on" after the word "request" should be "in". Lastly, on line 25, the word "on" after the word "stored" should be "in".

Regarding claim **12**, on line 5, the word "on" after the word "stored" should be "in".

Regarding claim **13**, on line 4, the word "on" after the word "request" should be "in". Also, on line 6, the word "on" after the word "request" should be "in".

Regarding claim **14**, on line 7, the word "the" before the word "controller" should be "a".

Regarding claim **19**, on line 2, the word "on" after the word "stored" should be "in".

Regarding claim **22**, on line 4, the word "a" before the word "controller" should be "the".

Regarding claim **28**, on line 2, the word "the" before the word "secondary" should be "a".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 3-6, 8, 10, 12, 14, 16-20, 31, and 32 are rejected under 35 U.S.C. 102(e) as being anticipated by Gummalla et al. (U.S. 2002/0154655) ("Gummalla"). Gummalla teaches all of the limitations of the specified claims with the reasoning that follows.

Regarding claim 1, "receiving a token request from a device" is anticipated by CMTS 102 receiving one or more bandwidth requests (token request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "Determining a registration load on the controller" is anticipated by the combination of one or more bandwidth requests (registration load) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41. "Granting a token to the device in response to the registration load" is anticipated by CMTS 102

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granting the data burst bandwidth to the appropriate cable modem 104 (device) via downstream communication 106 as shown in Figure 3 and spoken of on page 3, paragraph 42, lines 1-3.

"Receiving a token registration request from the device" is anticipated by CMTS 102 receiving one or more bandwidth requests (token registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "storing the token registration request in a registration queue upon determining that the device has been granted the token" is anticipated by the CMTS scheduler 110 storing each bandwidth request (token registration request) in the plurality of queues of data structure 112 (registration queue) as spoken of on page 4, paragraph 43, lines 7-12.

Regarding claim 3, "receiving an initial registration request from a second device" is anticipated by CMTS 102 receiving one or more bandwidth requests (initial registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "storing the initial registration request in the registration queue at a lower priority than the token registration request" is anticipated by the storing of data requests with the lowest priority in queue 508 of data structure 112 as spoken of on page 4, paragraph 44.

Regarding claim 4, "receiving a priority device registration request from a second device" is anticipated by CMTS 102 receiving one or more bandwidth requests (priority device registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "storing the priority device

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registration request in the registration queue at a higher priority than the token registration request" is anticipated by the storing of data requests with the highest priority in queue 502 of data structure 112 as spoken of on page 4, paragraph 44.

Regarding claim **5**, "wherein the device comprises a first packet-based telephony device" is anticipated by cable modem 104 (device) of Figure 1. "Receiving an initial registration request from a second packet-based telephony device" is anticipated by CMTS 102 receiving one or more bandwidth requests (initial registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "Storing the initial registration request in the registration queue at a lower priority than the token registration request" is anticipated by the storing of data requests with the lowest priority in queue 508 of data structure 112 as spoken of on page 4, paragraph 44.

"Receiving a priority device registration request from a telephony gateway device" is anticipated by CMTS 102 receiving one or more bandwidth requests (priority device registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "storing the priority device registration request in the registration queue at a higher priority than the token registration request" is anticipated by the storing of data requests with the highest priority in queue 502 of data structure 112 as spoken of on page 4, paragraph 44.

Regarding claim **6**, "processing registration requests stored on the registration queue in priority order and at a rate determined by the processing resources of the controller" is anticipated by CMTS scheduler 110 scheduling bandwidth requests to be

serviced based on priority identifiers and the order in which the requests were received as spoken of on page 4, paragraph 48, lines 1-6.

Regarding claim **8**, "wherein the registration load comprises at least one of a processor load of the controller and a number of registration requests stored in the registration queue" is anticipated by the combination of one or more bandwidth requests (processor load) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41.

Regarding claim 10, "receiving a token request from a first packet-based telephony device" is anticipated by CMTS 102 receiving one or more bandwidth requests (token request) from one or more cable modems 104 (packet-based telephony device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "Determining a registration load on the call manager" is anticipated by the combination of one or more bandwidth requests (registration load) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41.

"Granting a token to the first packet-based telephony device in response to the registration load" is anticipated by CMTS 102 granting the data burst bandwidth to the appropriate cable modem 104 (packet-based telephony device) via downstream communication 106 as shown in Figure 3 and spoken of on page 3, paragraph 42, lines 1-3. "Receiving a token registration request from the first packet-based telephony device" is anticipated by CMTS 102 receiving one or more bandwidth requests (token registration request) from one or more cable modems 104 (packet-based telephony device) as shown in Figure 3 and spoken of on page 3, paragraph 40.

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"Storing the token registration request on a registration queue upon determining that the device has been granted the token" is anticipated by the CMTS scheduler 110 storing each bandwidth request (token registration request) in the plurality of queues of data structure 112 (registration queue) as spoken of on page 4, paragraph 43, lines 7-12. "Receiving an initial registration request from a second packet-based telephony device" is anticipated by CMTS 102 receiving one or more bandwidth requests (initial registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "Storing the initial registration request in the registration queue at a lower priority than the token registration request" is anticipated by the storing of data requests with the lowest priority in queue 508 of data structure 112 as spoken of on page 4, paragraph 44.

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"Receiving a priority device registration request from a telephony gateway device" is anticipated by CMTS 102 receiving one or more bandwidth requests (priority device registration request) from one or more cable modems 104 (telephony gateway device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "Storing the priority device registration request in the registration queue at a higher priority than the token registration request" is anticipated by the storing of data requests with the highest priority in queue 502 of data structure 112 as spoken of on page 4, paragraph 44.

Lastly, "processing registration requests stored on the registration queue in priority order and at a rate determined by the processing resources of the call manager" is anticipated by CMTS scheduler 110 scheduling bandwidth requests to be serviced

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based on priority identifiers (priority order) and the order in which the requests were received as spoken of on page 4, paragraph 48, lines 1-6.

Regarding claim **12**, "wherein the registration load comprises at least one of a processor load of the controller and a number of registration requests stored on the registration queue" is anticipated by the combination of one or more bandwidth requests (processor load) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41.

Regarding claim 14, "an interface operable to receive a token request from a device, the interface further operable to receive a token registration request from the device" is anticipated by CMTS 102 (interface) receiving one or more bandwidth requests (token registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "A processor operable to determine a registration load on the controller" is anticipated by the combination of one or more bandwidth requests (registration load) by CMTS scheduler 110 (processor) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41.

"The processor further operable to grant a token to the device in response to the registration load" is anticipated by CMTS 102 (processor) granting the data burst bandwidth to the appropriate cable modem 104 (device) via downstream communication 106 as shown in Figure 3 and spoken of on page 3, paragraph 42, lines 1-3. Lastly, "a registration queue operable to store the token registration request upon determining that the device has been granted the token" is anticipated by the CMTS

scheduler 110 storing each bandwidth request (token registration request) in the plurality of queues of data structure 112 (registration queue) as spoken of on page 4, paragraph 43, lines 7-12.

Regarding claim **16**, "the interface receives an initial registration request from a second device" is anticipated by CMTS 102 (interface) receiving one or more bandwidth requests (initial registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "the registration queue stores the initial registration request at a lower priority than the token registration request" is anticipated by the storing of data requests with the lowest priority in queue 508 of data structure 112 as spoken of on page 4, paragraph 44.

Regarding claim 17, "the interface receives a priority device registration request from a second device" is anticipated by CMTS 102 (interface) receiving one or more bandwidth requests (priority device registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40.

Lastly, "the registration queue stores the priority device registration at a higher priority than the token registration request" is anticipated by the storing of data requests with the highest priority in queue 502 of data structure 112 as spoken of on page 4, paragraph 44.

Regarding claim 18, "the device comprises a first packet-based telephony device" is anticipated by cable modem 104 (device) of Figure 1. "The interface receives an initial registration request from a second packet-based telephony device and a priority device registration request from a telephony gateway device" is anticipated by

CMTS 102 receiving one or more bandwidth requests (initial registration request, priority device registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "the registration queue stores the initial registration request at a lower priority than the token registration request and the priority device registration request at a higher priority than the token registration request" is anticipated by the storing of data requests with the lowest priority in queue 508 as well as the storing of data requests with the highest priority in queue 502 of data structure 112 as spoken of on page 4, paragraph 44.

Regarding claim **19**, "wherein the controller processes registration requests stored on the registration queue in priority order and at a rate determined by the processing resources of the controller" is anticipated by CMTS scheduler 110 scheduling bandwidth requests to be serviced based on priority identifiers and the order in which the requests were received as spoken of on page 4, paragraph 48, lines 1-6.

Regarding claim **20**, "wherein the registration load comprises at least one of a processor load of the controller and a number of registration requests stored in the registration queue" is anticipated by the combination of one or more bandwidth requests (processor load) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41.

Regarding claim **31**, "receive a token request from a device" is anticipated by CMTS 102 receiving one or more bandwidth requests (token request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "Determine a registration load on the controller" is anticipated by the combination of

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one or more bandwidth requests (registration load) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41. "Grant a token to the device in response to the registration load" is anticipated by CMTS 102 granting the data burst bandwidth to the appropriate cable modem 104 (device) via downstream communication 106 as shown in Figure 3 and spoken of on page 3, paragraph 42, lines 1-3.

"Receive a token registration request from the device" is anticipated by CMTS 102 receiving one or more bandwidth requests (token registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "store the token registration request in a registration queue upon determining that the device has been granted the token" is anticipated by the CMTS scheduler 110 storing each bandwidth request (token registration request) in the plurality of queues of data structure 112 (registration queue) as spoken of on page 4, paragraph 43, lines 7-12.

Regarding claim 32, "means for receiving a token request from a device" is anticipated by CMTS 102 (means) receiving one or more bandwidth requests (token request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. "Means for determining a registration load on the controller" is anticipated by the combination of one or more bandwidth requests (registration load) by CMTS 102 (means) to create a single data burst bandwidth as shown in Figure 3 and spoken of on page 3, paragraph 41. "Means for granting a token to the device in response to the registration load" is anticipated by CMTS 102 (means)

granting the data burst bandwidth to the appropriate cable modem 104 (device) via downstream communication 106 as shown in Figure 3 and spoken of on page 3, paragraph 42, lines 1-3.

"Means for receiving a token registration request from the device" is anticipated by CMTS 102 receiving one or more bandwidth requests (token registration request) from one or more cable modems 104 (device) as shown in Figure 3 and spoken of on page 3, paragraph 40. Lastly, "means for storing the token registration request in a registration queue upon determining that the device has been granted the token" is anticipated by the CMTS scheduler 110 (means) storing each bandwidth request (token registration request) in the plurality of queues of data structure 112 (registration queue) as spoken of on page 4, paragraph 43, lines 7-12.

4. Claims **22 and 28-30** are rejected under 35 U.S.C. 102(b) as being anticipated by Buchholz et al. (U.S. 5,493,569) ("Buchholz"). Buchholz teaches all of the limitations of the specified claims with the reasoning that follows.

Regarding claim 22, "communicating a token request to a controller" is anticipated by control module (CM) 110 (controller) that receives requests (token request) from user modules (UMs) 112 as shown in step 602 of Figure 6 and spoken of on column 6, lines 43-46. "Receiving a token from the controller" is anticipated by CM 110 (controller) that sends a grant (token) to UM 112 in step 612 of Figure 6 as spoken of on column 6, lines 61-62. "Communicating a token registration request to the controller, the token registration request indicating that the device has received the token from the controller" is anticipated by the transmission of data (token registration

request) by UM 112 upon reception of a grant (token) from CM 110 (controller) as shown in step 722 of Figure 7 and spoken of on column 8, lines 52-56. Lastly, "receiving a registration acknowledgement from the controller" is anticipated by the request acknowledgment (registration acknowledgment) received by CM 110 (controller) in step 708 of Figure 7 as spoken of on column 8, lines 15-18.

Regarding claim 28, "periodically and repeatedly communicating a message to the controller and determining that the controller has become available if the controller acknowledges the message" is anticipated by the requests (message) sent by UMs 112 to CM 110 and the request acknowledgment received by CM 110 as shown in steps 704 and 708 of Figure 7.

Regarding claim 29, "communicating a prior token request" is anticipated by control module (CM) 110 (controller) that receives requests (token request) from user modules (UMs) 112 as shown in step 602 of Figure 6 and spoken of on column 6, lines 43-46. "Receiving a response denying the prior token request, the response having a retry time" is anticipated by the reception of a request acknowledgement (response) sent by CM 110 in step 708 of Figure 7 that initiates the start of a grant timer (retry time) in step 714 of Figure 7.

Regarding claim **30**, "the token granted to the device includes a timeout" is anticipated by the grant timeout shown in 718 of Figure 7. Lastly, "receiving a registration acknowledgment from the controller occurs if the controller receives the token registration request prior to expiration of the timeout" is anticipated by request

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acknowledgement received in step 708 of Figure 7 prior to grant timeout 718 of Figure 7.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims **2 and 15** are rejected under 35 U.S.C. 103(a) as being unpatentable over Gummalla et al. (U.S. 2002/0154655) ("Gummalla") in view of Mahalingaiah et al. (U.S. 6,654,346) ("Mahalingaiah").

Regarding claims 2 and 15, Gummalla teaches the method of claim 1 and the apparatus of claim 14. Gummalla also teaches cable modem 104 (packet-based telephony device) of Figure 1. Gummalla does not teach a registration table that stores an address mapping for a device upon registration. However, Mahalingaiah teaches priority arbiter 140 (controller) in Figure 16 that contains a module priority mapping table that associates (maps) a user source address/destination address to a priority and a module address as shown in Figure 16 and spoken of on column 21, lines 34-43. At the time of the invention, it would have been obvious to someone skilled in the art to combine the mapping table of Mahalingaiah with the controller of Gummalla in order to assign priority to incoming packets so that bandwidth allocation can be regulated.

7. Claims **7**, **9**, **11**, **13**, **and 21** are rejected under 35 U.S.C. 103(a) as being unpatentable over Gummalla et al. (U.S. 2002/0154655) ("Gummalla") in view of Buchholz et al. (U.S. 5,493,569) ("Buchholz").

Regarding claims 7 and 11, Gummalla teaches the methods of claims 1 and 10. Gummalla does not teach denying the token request and communicating a response to a device having a retry time that indicates when the device should communicate another token request. However, Buchholz teaches the reception of a request acknowledgement (response) sent by CM 110 in step 708 of Figure 7 that initiates the start of a grant timer (retry time) in step 714 of Figure 7. At the time of the invention, it would have been obvious to someone skilled in the art to combine the retry time teachings of Buchholz with the teachings of Gummalla in order to regulate contention between devices that are retransmitting requests.

Regarding claims **9**, **13**, **and 21**, Gummalla teaches the methods of claims **1 and 10** as well as the apparatus of claim **14**. Gummalla does not teach the granted token including a timeout and storing the token registration request in the registration queue if the request is received prior to expiration of the timeout. However, Buchholz teaches a request acknowledgement that is received in step 708 of Figure 7 prior to grant timeout 718 of Figure 7. At the time of the invention, it would have been obvious to someone skilled in the art to combine the timeout teachings of Buchholz with the teachings of Gummalla in order to regulate retransmission of requests.

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8. Claims **23 and 25** are rejected under 35 U.S.C. 103(a) as being unpatentable over Buchholz et al. (U.S. 5,493,569) ("Buchholz") in view of Lu et al. (U.S. 2002/0194345) ("Lu").

Regarding claims 23 and 25, Buchholz teaches the method of claim 22.

Buchholz also teaches setting the retry counter in step 702 of Figure 7 (configuring the device), sending requests (initial registration request) to the control module in step 704, and receiving a grant in response to the request in step 716. Buchholz does not teach determining that the controller is unavailable, registering with a secondary controller and determining while registered with the secondary controller that the controller has become available. However, Lu teaches the switching of client packets to one server (controller) among a group of servers (controllers) in order to provide required QoS as spoken of on page 2, paragraph 19. At the time of the invention, it would have been obvious to someone skilled in the art to combine the server switching teachings of Lu with the teachings of Buchholz in order to select the best server to provide required QoS and load balancing.

9. Claim **24** is rejected under 35 U.S.C. 103(a) as being unpatentable over Buchholz et al. (U.S. 5,493,569) ("Buchholz") in view of Mahalingaiah et al. (U.S. 6,654,346) ("Mahalingaiah").

Regarding claim 24, Buchholz teaches the method of claim 22. Buchholz also teaches UMs 112 (packet-based telephony devices). Buchholz does not teach a registration table that stores an address mapping for a device upon registration. However, Mahalingaiah teaches priority arbiter 140 (controller) in Figure 16 that

contains a module priority mapping table that associates (maps) a user source address/destination address to a priority and a module address as shown in Figure 16 and spoken of on column 21, lines 34-43. At the time of the invention, it would have been obvious to someone skilled in the art to combine the mapping table of Mahalingaiah with the controller of Buchholz in order to assign priority to incoming packets so that bandwidth allocation can be regulated.

10. Claims **26 and 27** are rejected under 35 U.S.C. 103(a) as being unpatentable over Buchholz et al. (U.S. 5,493,569) ("Buchholz") in view of Wang et al. (U.S. 6,826,160) ("Wang").

Regarding claims **26 and 27**, Buchholz teaches the method of claim **22**. Buchholz does not teach detecting a network connection, requesting a device address, receiving the address from a DHCP server, requesting configuration information using a resource address, receiving line assignments and configuring the device using the line assignments. However, Wang teaches a method of dynamic bandwidth allocation in Figure 3 where at step 302, a user issues a request to log onto a network (device configuration) for transmission as spoken of on column 10, lines 8-11. At the time of invention, it would have been obvious to someone skilled in the art to combine the network logon teachings of Wang with the teachings of Buchholz in order to establish a network connection between an end user and a controller before requests are sent.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bredin (U.S. 6,516,369), Eshel et al. (U.S. 2003/0018606), and McKinnon, III et al. (U.S. 6,917,628) are other references pertinent to this application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Moore, Jr. whose telephone number is (571) 272-3168. The examiner can normally be reached on Monday-Friday (8:30am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao can be reached at (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael J. Moore, Jr. Examiner

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CANG TON
PRIMARY EXAMINER